

**SYSTEM WITH MATRIX ARRAY OF WRITE HEADS AND ARRAY OF  
MAGNETORESISTIVE (MR) READ HEADS**

**Abstract of the Disclosure**

The invention provides a system comprising an array of write heads and an array of magnetoresistive (MR) read heads. The array of read heads may comprise a linear array of MR heads, and the array of write heads may comprise a planar array of heads arranged in a two-dimensional matrix. Each channel of the array of write heads has a corresponding channel in the array of read heads. Data signals can be independently written to different tracks of a medium using the array of write heads and can be read using each channel in the array of read heads. Moreover, the system can facilitate read and write operations at very small track pitches.